

**PERMIT FORMS
PURSUANT TO
REGULATIONS FOR THE CONTROL AND ABATEMENT OF AIR POLLUTION**



**COMMONWEALTH OF VIRGINIA
DEPARTMENT OF ENVIRONMENTAL QUALITY**

**AIR PERMITS
FORM 7 APPLICATION**

NEW SOURCE REVIEW PERMITS
and STATE OPERATING PERMITS



What pages do I fill out for my facility?

- All new sources and major modifications: 3
- All new and modified sources (except for true minors): 4
- All new and modified sources and State Operating Permits: 7, 8, 9
- All new and modified major sources: 25, 26, 27, 28, 29

In addition, complete the following pages:

- For boilers, external combustion units, turbines: 10, (19, 20 if applicable), 21, 22, 23, 24, 30
- For stationary combustion engines: 11, (19, 20 if applicable), 21, 22, 30
- For incinerators: 12, 19, 20, 21, 22, 23, 24, 30
- For surface coating operations: 13, 14, (19, 20 if applicable), 21, 22, 23, 24, 30
- For quarry operations: 13, 19, 20, 21, 22
- For VOC/Petroleum storage tanks: 15, 16, 21, 22, 23, 24, 30
- For loading racks and oil water separators: 17, 21, 22, 23, 24, 30
- For fumigation operations: 18
- For all other sources: 13, (19, 20, 23, 24 if applicable), 21, 22, 30

****NOTE: *The facility only has to fill out the applicable pages that apply.*** If any pages are unused, the facility does not need to submit the unused pages with the application.

Source-Specific Form 7 Applications

There are some source-specific Form 7 Applications available for these sources:
(check out the DEQ website at <http://www.deq.virginia.gov/Programs/Air/Forms.aspx>)

- Asphalt plants (Form 7A)
- Crematories (Form 7B)
- Concrete Batch Plant (Form 7C)

VIRGINIA DEPARTMENT OF ENVIRONMENTAL QUALITY - AIR PERMITS

LOCAL GOVERNING BODY CERTIFICATION FORM

Facility Name:	Registration Number:
Applicant's Name:	Name of Contact Person at the site:
Applicant's Mailing address:	Contact Person Telephone Number:
Facility location (also attach map):	
Facility type, and list of activities to be conducted:	
<p>The applicant is in the process of completing an application for an air pollution control permit from the Virginia Department of Environmental Quality. In accordance with § 10.1-1321.1, Title 10.1, Code of Virginia (1950), as amended, before such a permit application can be considered complete, the applicant must obtain a certification from the governing body of the county, city or town in which the facility is to be located that the location and operation of the facility are consistent with all applicable ordinances adopted pursuant to Chapter 22 (§§ 15.2-2200 <u>et seq.</u>) of Title 15.2. The undersigned requests that an authorized representative of the local governing body sign the certification below.</p>	
Applicant's signature:	Date:
<p>The undersigned local government representative certifies to the consistency of the proposed location and operation of the facility described above with all applicable local ordinances adopted pursuant to Chapter 22 (§§15.2-2200 <u>et seq.</u>) of Title 15.2. of the Code of Virginia (1950) as amended, as follows:</p> <p>(Check one block)</p> <p><input type="checkbox"/> The proposed facility is fully consistent with all applicable local ordinances.</p> <p><input type="checkbox"/> The proposed facility is inconsistent with applicable local ordinances; see attached information.</p>	
Signature of authorized local government representative:	Date:
Type or print name:	Title:
County, city or town:	

[THE LOCAL GOVERNMENT REPRESENTATIVE SHOULD FORWARD THE SIGNED CERTIFICATION TO THE APPROPRIATE DEQ REGIONAL OFFICE AND SEND A COPY TO THE APPLICANT.]

VIRGINIA DEPARTMENT OF ENVIRONMENTAL QUALITY - AIR PERMIT APPLICATION FEE

As of July 1, 2012, air permit applications are subject to a fee. The fee does not apply to administrative amendments or true minor sources. Applications will be considered incomplete if the proper fee is not paid and will not be processed until full payment is received. Air permit application fees are not refundable.

Send this form and a check (or money order) payable to "Treasurer of Virginia" to:

Department of Environmental Quality

Receipts Control

P.O. Box 1104

Richmond, VA 23218

Send a copy of this form with the permit application to:

The DEQ Regional Office

Please retain a copy for your records. Any questions should be directed to the DEQ regional office to which the application will be submitted.

COMPANY NAME:		FIN:	
COMPANY REPRESENTATIVE:		REG. NO.	
MAILING ADDRESS:			
BUSINESS PHONE:		FAX:	
FACILITY NAME:			
PHYSICAL LOCATION:			

PERMIT ACTIVITY	APPLICATION FEE AMOUNT	CHECK ONE
Sources subject to Title V permitting requirements:		
• Major NSR permit (Articles 7, 8, 9)	\$30,000	
• Major NSR permit amendment (Articles 7, 8, 9)	\$7,000	
• State major permit (Article 6)	\$15,000	
• Title V permit (Articles 1, 3)	\$20,000	
• Title V permit renewal (Articles 1, 3)	\$10,000	
• Title V permit modification (Articles 1, 3)	\$3,500	
• Minor NSR permit (Article 6)	\$1,500	
• Minor NSR amendment (Article 6)	\$750	
• State operating permit (Article 5)	\$7,000	
• State operating permit amendment (Article 5)	\$3,000	
Sources subject to Synthetic Minor permitting requirements:		
• Minor NSR permit (Article 6)	\$500	
• Minor NSR amendment (Article 6)	\$250	
• State operating permit (Article 5)	\$1,500	
• State operating permit amendment (Article 5)	\$800	

DEQ OFFICE TO WHICH PERMIT APPLICATION WILL BE SUBMITTED (check one)

- | | | |
|---|--|---|
| <input type="checkbox"/> SWRO/Abingdon | <input type="checkbox"/> NRO/Woodbridge | <input type="checkbox"/> PRO/Richmond |
| <input type="checkbox"/> VRO/Harrisonburg | <input type="checkbox"/> BRRO/Lynchburg or Roanoke | <input type="checkbox"/> TRO/Virginia Beach |

FOR DEQ USE ONLY

Date: _____

DC #: _____

Reg. No.: _____

APPLICATION FEE FORM DEFINITIONS:

Administrative amendment – An administrative change to a permit issued pursuant to Article 1 (9 VAC 5-80-50 et seq.), Article 3 (9 VAC 5-80-360 et seq.), Article 5 (9 VAC 5-80-800 et seq.), Article 6 (9 VAC 5-80-1100 et seq.), Article 7 (9 VAC 5-80-1400 et seq.), Article 8 (9 VAC 5-80-1605 et seq.), or Article 9 (9 VAC 5-80-2000 et seq.) of 9 VAC 5 Chapter 80. Administrative amendments include, but are not limited to, the following:

- Corrections of typographical or any other error, defect or irregularity which does not substantially affect the permit,
- Identification of a change in the name, address, or phone number of any person identified in the permit, or of a similar minor administrative change at the source,
- Change in ownership or operational control of a source where the board determines that no other change in the permit is necessary, provided that a written agreement containing a specific date for transfer of permit responsibility, coverage, and liability between the current and new permittee has been submitted to the board.

Major new source review permit (Major NSR permit) – A permit issued pursuant to Article 7 (9 VAC 5-80-1400 et seq.), Article 8 (9 VAC 5-80-1605 et seq.), or Article 9 (9 VAC 5-80-2000 et seq.) of 9 VAC 5 Chapter 80. For purposes of fees, the Major NSR permit also includes exemption applications for new sources.

- An Article 7 permit is a preconstruction review permit (case-by-case Maximum Achievable Control Technology (MACT) determination) for the construction or reconstruction of any stationary source or emission unit that has the potential to emit, considering controls, 10 tons per year or more of any individual hazardous air pollutant (HAP) or 25 tons per year or more of any combination of HAPs and EPA has not promulgated a MACT standard or delisted the source category.
- An Article 8 permit is for a source (1) with the potential to emit over 250 tons per year of a single criteria pollutant OR (2) is in one of the listed source categories under [9 VAC 5-80-1615](#) and has the potential to emit over 100 tons per year of any criteria pollutant OR (3) with the potential to emit over 100,000 tons per year of CO₂ equivalent (CO₂e) (9 VAC 5-85 Part III). PSD permits are issued in areas that are in attainment of the National Ambient Air Quality Standards.
- An Article 9 permit is a preconstruction review permit for areas that are in nonattainment with a National Ambient Air Quality Standard (NAAQS). Nonattainment permits are required by any major new source that is being constructed in a nonattainment area and is major for the pollutant for which the area is in nonattainment. Nonattainment permitting requirements may also be triggered if an existing minor source makes a modification that results in the facility being major for the pollutant for which the area is in nonattainment. A major source is any source with potential to emit over 250 tons per year of a single criteria pollutant or is in one of the listed source categories under [9 VAC 5-80-2010](#) and the potential to emit over 100 tons per year of any criteria pollutant. However, if any area is in nonattainment for a specific pollutant, the major source threshold may be lower for that pollutant. For example, sources locating in the Northern Virginia Ozone Nonattainment Area which are part of the [Ozone Transport Region](#) would be a major source if they have the potential to emit more than 100 tons per year of NO_x and/or 50 tons per year of VOC regardless of source category. Nonattainment permits do not require an air quality analysis but require a source to control to the Lowest Achievable Emission Rate (LAER) and to obtain offsets.

Major NSR permit amendment – A change to a permit issued pursuant to Article 7 (9 VAC 5-80-1400 et seq.), Article 8 (9 VAC 5-80-1605 et seq.), or Article 9 (9 VAC 5-80-2000 et seq.) of 9 VAC 5 Chapter 80. Only minor amendments and significant amendments are included in this category. For purposes of fees, the Major NSR amendment also includes exemption applications for existing sources.

Minor new source review permit (Minor NSR permit) – A permit to construct and operate issued under Article 6 (9 VAC 5-80-1100 et seq.) of 9 VAC 5 Chapter 80. Minor NSR permits are 1) categorically

required; or 2) issued to sources whose uncontrolled emission rate for a regulated criteria pollutant is above exemption thresholds and permitting allowables are below Title V thresholds, and/or 3) issued to sources whose potential to emit for a toxic pollutant is above state toxic exemption thresholds and permitting allowables are below Title V thresholds. The minor NSR permit can be used to establish synthetic minor limits for avoidance of state major, PSD and/or Title V permits. For purposes of fees, the Minor NSR permit also includes exemption applications for new sources.

Minor NSR amendment - A change to a permit issued pursuant to Article 6 (9 VAC 5-80-1100 et seq.) of 9 VAC 5 Chapter 80. Only minor amendments and significant amendments are included in this category. For purposes of fees, the Minor NSR amendment also includes exemption applications for existing sources.

Sources subject to Synthetic Minor permitting requirements - Stationary sources whose potential to emit exceeds the Title V threshold (100 tons per year of a criteria pollutant, 10/25 tpy of HAPs, and/or 100,000 tpy CO₂e) but have taken federally enforceable limits, either through a state operating permit or a minor NSR permit, to avoid Title V permit applicability.

Sources subject to Title V permitting requirements – Stationary sources that have a potential to emit above the Title V thresholds or are otherwise applicable to the Title V permitting program.

State major permit – A permit to construct and operate issued under Article 6 (9 VAC 5-80-1100 et seq.) of 9 VAC 5 Chapter 80. State major permits are for facilities that have an allowable emission rate of more than 100 tons per year, but less than 250 tons per year, of any criteria pollutant and are not listed in the 28 categories under “major stationary source” as defined in [9 VAC 5-80-1615](#).

State operating permit (SOP) – A permit issued under Article 5 (9 VAC 5-80-800 et seq.) of 9 VAC 5 Chapter 80. SOPs are most often used by stationary sources to establish federally enforceable limits on potential to emit to avoid major New Source Review permitting (PSD and Nonattainment permits), Title V permitting, and/or major source MACT applicability. SOPs can also be used to combine multiple permits from a stationary source into one permit or to implement emissions trading requirements. The State Air Pollution Control Board, at its discretion, may also issue SOPs to cap the emissions of a stationary source or emissions unit causing or contributing to a violation of any air quality standard or to establish a source-specific emission standard or other requirement necessary to implement the federal Clean Air Act or the Virginia Air Pollution Control Law.

SOP permit amendment - A change to a permit issued pursuant to Article 5 (9 VAC 5-80-800 et seq.) of 9 VAC 5 Chapter 80. Only minor amendments and significant amendments are included in this category.

Title V permit – A federal operating permit issued pursuant to Article 1 (9 VAC 5-80-50 et seq.) or Article 3 (9 VAC 5-80-360 et seq.) of 9 VAC 5 Chapter 80. Facilities which (1) have the potential to emit of air pollutants above the major source thresholds, listed in [9 VAC 5-80-60](#) OR (2) are area sources of hazardous air pollutants, not explicitly exempted by EPA OR (3) have the potential to emit over 100,000 tons per year of CO₂ equivalent (CO₂e) (9 VAC 5-85 Part III), are required to obtain a Title V permit. For purposes of fees, the Title V permit also includes Acid Rain (Article 3) permit applications.

Title V permit modification - A change to a permit issued pursuant to Article 1 (9 VAC 5-80-50 et seq.) or Article 3 (9 VAC 5-80-360 et seq.) of 9 VAC 5 Chapter 80. Only minor modifications and significant modifications are included in this category.

Title V permit renewal – A renewal of a Title V permit pursuant to Article 1 (9 VAC 5-80-50 et seq.) of 9 VAC 5 Chapter 80. Title V permits are renewed every 5 years and a renewal application must be submitted to the regional office no sooner than 18 months and no later than 6 months prior to expiration of the Title V permit. For purposes of fees, the Title V permit renewal also includes Acid Rain (Article 3) permit renewal applications.

True minor source – A stationary source whose uncontrolled and potential to emit emissions are less than any major source threshold. These emissions are not constrained by an enforceable limit to keep it below the thresholds that trigger classification as a major stationary source pursuant to the Clean Air Act but are inherently constrained to less than major source thresholds.

Commonwealth of Virginia
Department of Environmental Quality



AIR PERMIT APPLICATION
CHECK ALL PAGES ATTACHED AND LIST ALL ATTACHED DOCUMENTS

- | | |
|--|--|
| <input type="checkbox"/> Local Government Certification Form, Page 3 | <input type="checkbox"/> Proposed Permit Limits for GHGs on CO ₂ e Basis, Page 26 |
| <input type="checkbox"/> Application Fee Form, Pages 4-6 | <input type="checkbox"/> BAE for Criteria Pollutants, Page 27 |
| <input type="checkbox"/> Document Certification Form, Page 7 | <input type="checkbox"/> BAE for GHGs on Mass Basis, Page 28 |
| <input type="checkbox"/> General Information, Pages 8-9 | <input type="checkbox"/> BAE for GHGs on CO ₂ e Basis, Page 29 |
| <input type="checkbox"/> Fuel Burning Equipment, Page 10 | <input type="checkbox"/> Operating Periods, Page 30 |
| <input type="checkbox"/> Stationary Internal Combustion Engines, Page 11 | |
| <input type="checkbox"/> Incinerators, Page 12 | <u>ATTACHED DOCUMENTS:</u> |
| <input type="checkbox"/> Processing, Page 13 | <input type="checkbox"/> Map of Site Location |
| <input type="checkbox"/> Inks, Coatings, Stains, and Adhesives, Page 14 | <input type="checkbox"/> Facility Site Plan |
| <input type="checkbox"/> VOC/Petroleum Storage Tanks, Pages 15-16 | <input type="checkbox"/> Process Flow Diagram/Schematic |
| <input type="checkbox"/> Loading Rack and Oil-Water Separators, Page 17 | <input type="checkbox"/> MSDS or CPDS Sheets |
| <input type="checkbox"/> Fumigation Operations, Page 18 | <input type="checkbox"/> Estimated Emission Calculations |
| <input type="checkbox"/> Air Pollution Control and Monitoring Equipment, Page 19 | <input type="checkbox"/> Stack Tests |
| <input type="checkbox"/> Air Pollution Control/Supplemental Information, Page 20 | <input type="checkbox"/> Air Modeling Data |
| <input type="checkbox"/> Stack Parameters and Fuel Data, Page 21 | <input type="checkbox"/> Confidential Information (see Instructions) |
| <input type="checkbox"/> Proposed Permit Limits for Criteria Pollutants, Page 22 | <input type="checkbox"/> BACT Analysis |
| <input type="checkbox"/> Proposed Permit Limits for Toxic Pollutants/HAPs, Page 23 | |
| <input type="checkbox"/> Proposed Permit Limits for Other Reg. Pollutants, Page 24 | |
| <input type="checkbox"/> Proposed Permit Limits for GHGs on Mass Basis, Page 25 | |

Check added form sheets above; also indicate the number of copies of each form in blank provided.

DOCUMENT CERTIFICATION FORM

I certify under penalty of law that this document and all attachments [as noted above] were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering and evaluating the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

I certify that I understand that the existence of a permit under [Article 6 of the Regulations] does not shield the source from potential enforcement of any regulation of the board governing the major NSR program and does not relieve the source of the responsibility to comply with any applicable provision of the major NSR regulations.

SIGNATURE: _____	DATE: _____
NAME: _____	REGISTRATION NO: _____
TITLE: _____	COMPANY: _____
PHONE: _____	ADDRESS: _____
EMAIL: _____	_____

References: Virginia Regulations for the Control and Abatement of Air Pollution (Regulations), 9 VAC 5-20-230B and 9 VAC 5-80-1140E.

GENERAL INFORMATION

Person Completing Form:		Date:	Registration Number:
Company and Division Name:			FIN:
Mailing Address:			
Exact Source Location – Include Name of City (County) and Full Street Address or Directions:			
Telephone Number:	No. of Employees:	Property Area at Site:	
Person to Contact on Air Pollution Matters – Name and Title:		Phone Number:	
		Fax:	
		Email:	
Latitude and Longitude Coordinates OR UTM Coordinates of Facility:			

Reason(s) for Submission (Check all that apply):

☐ State Operating Permit

This permit is applied for pursuant to provisions of the Virginia Administrative Code, 9 VAC 5 Chapter 80, Article 5 (SOP)

☐ New Source

This permit is applied for pursuant to the following provisions of the Virginia Administrative Code:

☐ Modification of a Source

☐ 9 VAC 5 Chapter 80, Article 6 (Minor Sources)

☐ Relocation of a Source

☐ 9 VAC 5 Chapter 80, Article 8 (PSD Major Sources)

☐ 9 VAC 5 Chapter 80, Article 9 (Non-Attainment Major Sources)

☐ Amendment to a Permit Dated: _____ Permit Type: ☐ SOP (Art. 5) ☐ NSR (Art. 6, 8, 9)

Amendment Type:

- ☐ Administrative Amendment
☐ Minor Amendment
☐ Significant Amendment

This amendment is requested pursuant to the provisions of:

- | | |
|---|--|
| <input type="checkbox"/> 9 VAC 5-80-970 (Art. 5 Adm.)
<input type="checkbox"/> 9 VAC 5-80-980 (Art. 5 Minor)
<input type="checkbox"/> 9 VAC 5-80-990 (Art. 5 Sig.)

<input type="checkbox"/> 9 VAC 5-80-1270 (Art. 6 Adm.)
<input type="checkbox"/> 9 VAC 5-80-1280 (Art. 6 Minor)
<input type="checkbox"/> 9 VAC 5-80-1290 (Art. 6 Sig.) | <input type="checkbox"/> 9 VAC 5-80-1935 (Art. 8 Adm.)
<input type="checkbox"/> 9 VAC 5-80-1945 (Art. 8 Minor)
<input type="checkbox"/> 9 VAC 5-80-1955 (Art. 8 Sig.)

<input type="checkbox"/> 9 VAC 5-80-2210 (Art. 9 Adm.)
<input type="checkbox"/> 9 VAC 5-80-2220 (Art. 9 Minor)
<input type="checkbox"/> 9 VAC 5-80-2230 (Art. 9 Sig.) |
|---|--|

☐ Other (specify): _____

Explanation of Permit Request (attach documents if needed):

GENERAL INFORMATION (CONTINUED)

For Portable Plants:

Is this facility designed to be portable? ☐ Yes ☐ No

• If yes, is this facility already permitted as a portable plant? ☐ Yes ☐ No Permit Date: _____

If not permitted, is this an application to be permitted as a portable plant? ☐ Yes ☐ No

If permitted as a portable facility, is this a notification of relocation? ☐ Yes ☐ No

• Describe the new location or address (include a site map): _____

• Will the portable facility be co-located with another source? ☐ Yes ☐ No Reg. No. _____

• Will the portable facility be modified or reconstructed as a result of the relocation? ☐ Yes ☐ No

• Will there be any new emissions other than those associated with the relocation? ☐ Yes ☐ No

• Is the facility suitable for the area to which it will be located? (attach documentation) ☐ Yes ☐ No

Describe the products manufactured and/or services performed at this facility:

List the Standard Industrial Classification (SIC) Code(s) for the facility:

List the North American Industry Classification System (NAICS) Code(s) for the facility:

List all the facilities in Virginia under common ownership or control by the owner of this facility:

Milestones: This section is to be completed if the permit application includes a new emissions unit or modification to existing operations.

Milestones*:	Starting Date:	Estimated Completion Date:
New Equipment Installation		
Modification of Existing Process or Equipment		
Start-up Dates		

*For new or modified installations to be constructed in phased schedule, give construction/installation starting and completion date for each phase.

FUEL BURNING EQUIPMENT: (Boilers, Turbines, Kilns, and Other External Combustion Units)

Company Name:	Date:	Registration Number:
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Unit Ref. No.	Equipment Manufacturer, Type, and Model Number	Date of Manuf.	Date of Const.	Max. Rated Input Heat Capacity For Each Fuel (Million Btu/hr)	Type of Fuel	Type of Equip. (use Code A)	Usage (use Code B)	Requested Throughput* (hrs/yr OR fuel/yr)	Federal Regulations that Apply

☐ Estimated Emission Calculations Attached (include references of emission factors) and/or Stack Test Results if Available

<p>Code A – Equipment</p> <p><u>BOILER TYPE:</u></p> <ol style="list-style-type: none"> 1. Pulverized Coal - Wet Bottom 2. Pulverized Coal - Dry Bottom 3. Pulverized Coal - Cyclone Furnace 4. Circulating Fluidized Bed 5. Spreader Stoke 6. Chain or Travelling Grate Stoker 7. Underfeed Stoker 8. Hand Fired Coal 9. Oil, Tangentially Fired 10. Oil, Horizontally Fired (except rotary cup) 	<ol style="list-style-type: none"> 11. Gas, Tangentially Fired 12. Gas, Horizontally Fired 13. Wood with Flyash Reinjection 14. Wood without Flyash Reinjection 15. Other (specify) _____ <p><u>OTHER COMBUSTION UNITS:</u></p> <ol style="list-style-type: none"> 16. Oven / Kiln 17. Rotary Kiln 18. Process Furnace 19. Other (specify) _____ 	<p>Code B - Usage</p> <ol style="list-style-type: none"> 1. Steam Production 2. Drying / Curing 3. Space Heating 4. Process Heat 5. Food Processing 6. Electrical Generation 7. Mechanical Work 8. Other (specify) _____
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***Pick only one option for a requested throughput.**

NOTE: Dryers, kilns, and furnaces also have to fill out Page 13.

STATIONARY INTERNAL COMBUSTION ENGINES:

Company Name:	Date:	Registration Number:
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Unit Ref. No.	Equipment Manufacturer, Type, and Model Number	Date of Manuf.	Date of Const.	Output Brake Horsepower (bhp)	Output Electrical Power (kW)	Type of Fuel	Usage* (use Code C)	Requested Throughput** (hrs/yr OR fuel/yr)	Federal Regulations that Apply

☐ Estimated Emission Calculations Attached (include references of emission factors and manufacturer specifications per engine) and/or Stack Test Results if Available

Code C – Usage

1. Emergency Generator
2. Participates in Emergency Load Response Program
3. Non-Emergency Generator
4. Participates in Demand Response Program(s)
5. Other (specify) _____

***Can pick more than one option**
(i.e. 1 and 2 OR 3 and 4)

****Pick only one option for a requested throughput.**

LIQUID AND/OR SOLID WASTE INCINERATORS: (NOT AN AIR EMISSIONS CONTROL DEVICE)

Company Name:	Date:	Registration Number:
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Unit Ref. No.	Equipment Manufacturer, Type, and Model Number	Date of Manuf.	Date of Const.	Incin. Max. Rated Capacity (lbs/hr)	Burner Rated Capacity (Btu/hr)		Minimum Chamber Temp. (°F)		Requested Throughput to be Incinerated		Incin. Type (use Code D)	Waste Type (use Code E)	Min. Secondary Chamber Retention Time (sec)	Burn Down Cycle Time (hrs)	Federal Regulations that Apply
					Pri.	Sec.	Pri.	Sec.	<u>Lbs</u> hr	<u>Tons</u> yr					

☐ Estimated Emission Calculations Attached (include references of emission factors) and/or Stack Test Results if Available

Code D – Incinerator Type 1. Rotary Kiln 2. Mass Burn/Refuse Derived Fuel 3. Crematory 4. Single Chamber 5. Multiple Chamber 6. Other (specify) _____	Code E – Waste Type 1. Paper Waste 2. Hospital Waste 3. Medical Waste 4. Municipal Waste 5. Animal Waste 6. Crematory Waste (Human Remains) 7. Industrial Waste 8. Other (specify) _____
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PROCESSING, MANUFACTURING, SURFACE COATING AND DEGREASING OPERATIONS:

Company Name:	Date:	Registration Number:
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Unit Ref. No.	Process or Operation Name	Equipment Manufacturer, Type, and Model Number	Date of Manuf.	Date of Const.	Max. Rated Capacity (____/hr)*	Requested Throughput*			Federal Regulations that Apply
						(____/hr)	(____/day)	(____/yr)	

☐ Estimated Emission Calculations Attached (include references of emission factors) and/or Stack Test Results if Available

* Specify units for each operation in tons, pounds, gallons, etc., as applicable. For coating operations, the maximum rated capacity is the spray gun capacity.

INKS, COATINGS, STAINS, AND ADHESIVES:

Company Name:	Date:	Registration Number:
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Unit Ref. No.	Coating Material (specify)	Coating Use (use Code F)	Lbs VOC in Coating as Applied			VOC Control Method (use Code G)	Solids Transfer Efficiency (%)	Coating Density as Applied (lbs/gal)	Maximum Coating Usage as Applied	
			Per gal coating	Per gal coating less water & exempt solvent	Per gal solids				(Gal/hr)	(Gal/yr)

Hazardous Air Pollutants (HAPs)	Lbs HAP/gal coating as applied	Hazardous Air Pollutants (HAPs)	Lbs HAP/gal coating as applied
CAS #:		CAS #:	
HAP Name:		HAP Name:	
CAS #:		CAS #:	
HAP Name:		HAP Name:	
CAS #:		CAS #:	
HAP Name:		HAP Name:	

☐ Estimated Emission Calculations Attached (include references of emission factors and MSDS or CPDS for each coating)

Code F – Coating Use	Code G – VOC Control Method
1. Large Appliance Coatings 2. Magnet Wire Coatings 3. Auto and Light Duty Truck Coatings a. Prime Coat b. Guidecoat c. Topcoat d. Final Repair e. Anti-chip f. Anti-chip extreme performance g. Anti-chip visible surface 4. Aerospace Industries Coating 5. Magnetic Tape Coating 6. Can Coatings a. Base/Overvarnish	1. Low-VOC Coatings a. High-Solids Coatings b. Low-Solvent Coatings c. Waterborne Coatings d. Powder Coatings e. UV Light/Electron Beam Cured Coatings f. Electrodeposited Waterborne Coatings 2. Increased Solids Transfer Efficiency 3. Carbon Adsorption 4. Incineration 5. Regenerative Thermal Oxidizer (RTO) 6. Enclosures - Partial _____ % or Capture Efficiency _____ % 7. Other:_____
b. Internal body/external ends c. 3-piece Can, side seam d. End seals 7. Metal Coil Coating 8. Non-Printing Paper/Fabric Coating 9. Publication Printing Inks and Coatings 10. Packaging Printing Inks and Coatings 11. Vinyl Coatings 12. Metal Furniture Coatings 13. Plastic Parts and Products Coatings 14. Miscellaneous Metal Parts Coatings a. Clear coatings b. Air-dried Coatings c. Extreme Performance Coatings	d. Other coatings 15. Flatwood Paneling Coatings a. Printed Hardwood/Particleboard b. Natural finish Hardwood/Plywood c. Class II Hardboard 16. Paper and other Webs 17. Shipbuilding and Ship Repair Coating 18. Wood Furniture Coating 19. Flexographic Ink 20. Lithographic Ink 21. Rotogravure Ink 22. Adhesives – describe:_____ _____ _____ 23. Other:_____

NOTE: Fill out one page for each ink, coating, stain, and adhesive.

VOLATILE ORGANIC COMPOUND (VOC)/PETROLEUM LIQUID STORAGE TANKS:

Company Name:	Date:	Registration Number:
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Unit Ref. No.	Tank Type (use Code H)	Source of Tank Contents (use Code I)	Date of Manuf.	Date of Const.	Material Stored - Name and CAS # (include Reid Vapor Pressure for Gasoline)	Max. True Vapor Pressure (psia)	Density* (lbs/gal)	Max. Average Storage Temp. (°F)	Tank Diameter (feet)	Tank Capacity (gal)	Requested Throughput (gal/yr)	Federal Regulations that Apply

☐ Estimated Emission Calculations Attached (include TANKS Program printouts)

Code H – Tank Type 1. Fixed Roof a. Vertical Tank b. Horizontal Tank 2. Floating Roof a. Internal (welded deck) b. Internal (bolted deck) – Specify Panel or Sheet c. External (welded deck) d. External (riveted deck)	3. Variable Vapor Space 4. Pressure Tank (over 15 psig) 5. Underground Splash Loading 6. Underground Submerged Loading 7. Underground Submerged Loading, Balanced 8. Other: _____	Code I – Source of Tank Contents 1. Pipeline 2. Rail Car 3. Tank Truck 4. Ship or Barge 5. Process
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* Specify the ASTM temperature standard at which the density was measured.

VOLATILE ORGANIC COMPOUND (VOC)/PETROLEUM LIQUID STORAGE TANKS (CONTINUED):

Company Name:	Date:	Registration Number:
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Unit Ref. No.	Tank Color		Fixed Roof Only					Floating Roof Only						
	Shell	Roof	Internal Tank Height or Length (feet)	Max. Hourly Filling (gallons)	External Fixed Roof			Seal Type (use Code J)	Max. Hourly Withdrawal (gallons)	Internal Floating Roof				
					Type of Roof (cone or dome)	Cone height (ft) and slope (ft/ft)	Dome height (ft) and radius (ft)			Self Supporting?	If no,			
											No. of Columns	Column Diameter (ft)		

Code J – Seal Type (Pontoon External Only) 1. Mechanical Shoe a. Primary only b. Shoe mounted secondary c. Rim mounted secondary 2. Liquid Mounted a. Primary only b. Weather shield secondary c. Rim mounted secondary 3. Vapor Mounted a. Primary only b. Weather shield secondary c. Rim mounted secondary	(Double Deck External Only) 4. Mechanical Shoe a. Primary only b. Shoe mounted secondary c. Rim mounted secondary 5. Liquid Mounted a. Primary only b. Weather shield secondary c. Rim mounted secondary 6. Vapor Mounted a. Primary only b. Weather shield secondary c. Rim mounted secondary	(Internal Only) 7. Mechanical Shoe a. Primary only b. Shoe mounted secondary c. Rim mounted secondary 8. Liquid Mounted a. Primary only b. Rim mounted secondary 9. Vapor Mounted a. Primary only b. Rim mounted secondary
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LOADING RACKS AND OIL-WATER SEPARATORS:

Company Name:	Date:	Registration Number:
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Unit Ref. No.	Name of Product Loaded or Recovered	Max. Hourly Throughput (gallons)	Requested Annual Throughput (gallons)	Loading Racks Only		Oil-Water Separators Only	Federal Regulations that Apply
				Type of Loading (use Code K)	Hatch Vapor Closure on Loading Arms (use Code L)	Type of Enclosure (use Code M)	

☐ Estimated Emission Calculations Attached

Code K – Type of Loading 1. Overhead Loading - splash fill, normal service 2. Overhead Loading - submerged fill, normal service 3. Bottom Loading - normal service 4. Overhead Loading - splash fill, balanced service 5. Overhead Loading - submerged fill, balanced service 6. Bottom Loading - Balanced service	Code L – Hatch Vapor Closure 1. None, open to air 2. Emco - Wheaton 3. OPW 4. Chiksan - LTV 5. Other: _____	Code M – Type of Enclosure 1. Open 2. Partially Open 3. Floating Roof 4. Sealed Cover
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FUMIGATION OPERATIONS:

Company Name:	Date:	Registration Number:
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Unit Ref. No.	Object or Product to be Fumigated	Containment System	Fumigant	Max. Daily Fumigant Usage* (lbs/day or g/day)	Max. Annual Fumigant Usage* (lbs/yr or g/yr)	Estimated Number of Fumigation Events Per Year	Aeration Method	Distance from Fumigation Operation to Property or Fence Line (feet)

☐ Estimated Emission Calculations Attached

☐ Fumigation Operation is less than 300 feet to an area occupied by people

* Specify units for each operation in pounds (methyl bromide) or grams (phosphine) per day or year.

AIR POLLUTION CONTROL AND MONITORING EQUIPMENT:

Company Name:	Date:	Registration Number:
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Unit Ref. No.	Vent/ Stack No.	Device Ref. No.	Pollutant/Parameter	Air Pollution Control Equipment			Monitoring Instrumentation
				Manufacturer and Model No.	Type (use Code N)	Percent Efficiency (%)	Specify Type, Measured Pollutant, and Recorder Used

☐ Manufacturer Specifications Included

Code N – Type of Air Pollution Control Equipment		
<ul style="list-style-type: none"> 1. Settling Chamber 2. Cyclone 3. Multicyclone 4. Cyclone scrubber 5. Orifice scrubber 6. Mechanical scrubber 7. Venturi scrubber <ul style="list-style-type: none"> a. Fixed throat b. Variable throat 8. Mist eliminator 9. Filter <ul style="list-style-type: none"> a. Baghouse b. Other: _____ 10. Electrostatic Precipitator 	<ul style="list-style-type: none"> a. Hot side b. Cold side c. High voltage d. Low voltage e. Single stage f. Two stage g. Other: _____ 11. Catalytic Afterburner 12. Direct Flame Afterburner 13. Diesel Oxidation Catalyst (DOC) 14. Thermal Oxidizer 15. Regenerative Thermal Oxidizer (RTO) 16. Selective Catalytic Reduction (SCR) 17. Selective Non-Catalytic Reduction (SNCR) 	<ul style="list-style-type: none"> 17. Absorber <ul style="list-style-type: none"> a. Packed tower b. Spray tower c. Tray tower d. Venturi e. Other: _____ 18. Adsorber <ul style="list-style-type: none"> a. Activated carbon b. Molecular sieve c. Activated alumina d. Silica gel e. Other: _____ 19. Condenser (specify) 20. Other: _____

AIR POLLUTION CONTROL EQUIPMENT - SUPPLEMENTAL INFORMATION:

Company Name:	Date:	Registration Number:
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Device Ref. No.	Type (use Code N)	Liquid Flow Rate (gpm) (4, 5, 6, 7, 17, 19)	Liquid Medium (4, 5, 6, 7, 17, 19)	Cleaning Method (9, 10, 17, 18)	Number of Fields (10)	Number of Sections (9, 10)	Air to Cloth Ratio (fpm) (9)	Filter Material (9)	Inlet Temp. (°F)	Regeneration Method & Cycle Time (sec) (18)	Chamber Temp. (°F) (11, 12, 14, 15)	Retention Time (sec) (11, 12, 14, 15)	Pressure Drop (inch H ₂ O) (3, 4, 5, 6, 7, 9, 17)

NOTE: Numbers listed in parenthesis in the columns above represent the Control Equipment in Code N below.

Code N – Type of Air Pollution Control Equipment 1. Settling Chamber 2. Cyclone 3. Multicyclone 4. Cyclone scrubber 5. Orifice scrubber 6. Mechanical scrubber 7. Venturi scrubber a. Fixed throat b. Variable throat 8. Mist eliminator 9. Filter a. Baghouse b. Other: _____ 10. Electrostatic Precipitator	a. Hot side b. Cold side c. High voltage d. Low voltage e. Single stage f. Two stage g. Other: _____ 11. Catalytic Afterburner 12. Direct Flame Afterburner 13. Diesel Oxidation Catalyst (DOC) 14. Thermal Oxidizer 15. Regenerative Thermal Oxidizer (RTO) 16. Selective Catalytic Reduction (SCR) 17. Selective Non-Catalytic Reduction (SNCR)	17. Absorber a. Packed tower b. Spray tower c. Tray tower d. Venturi e. Other: _____ 18. Adsorber a. Activated carbon b. Molecular sieve c. Activated alumina d. Silica gel e. Other: _____ 19. Condenser (specify) 20. Other: _____
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STACK PARAMETERS AND FUEL DATA:

Company Name:	Date:	Registration Number:
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Unit Ref. No.	Vent/ Stack No.	Vent/Stack or Exhaust Data						Fuel(s) Data				
		Vent/Stack Config. (use Code O)	Vent/Stack Height (feet)	Exit Diameter (feet)	Exit Gas Velocity (ft/sec)	Exit Gas Flow Rate (acfm)	Exit Gas Temp. (°F)	Type of Fuel	Heating Value* (Btu/____)	Max. Rated Burned/hr (specify units)	Max. Sulfur %	Max. Ash %

Code O – Vent/Stack Configuration

1. Stack discharging downward, or nearly downward
2. Equivalent stack representing a combination of multiple actual stacks
3. Gooseneck stack
4. Stack discharging in a horizontal direction
5. Stack with an unobstructed opening discharge in a vertical direction
6. Vertical stack with a weather cap or similar obstruction in exhaust system

*** Specify units for each heating value in Btus per unit of fuel.**

PROPOSED PERMIT LIMITS FOR CRITERIA POLLUTANTS:

Company Name:	Date:	Registration Number:
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Unit Ref. No.	Proposed Permit Limits for Criteria Pollutants															
	PM ^a (Particulate Matter)		PM-10 ^{a,b} (10 µM or smaller particulate matter)		PM 2.5 ^{a,b} (2.5 µM or smaller particulate matter)		SO ₂ (Sulfur Dioxide)		NO _x (Nitrogen Oxides)		CO (Carbon Monoxide)		VOC ^a (Volatile Organic Compounds)		Pb (Lead)	
	lbs/hr	tons/yr	lbs/hr	tons/yr	lbs/hr	tons/yr	lbs/hr	tons/yr	lbs/hr	tons/yr	lbs/hr	tons/yr	lbs/hr	tons/yr	lbs/hr	tons/yr
TOTAL:																

☐ Estimated Emission Calculations Attached (totals and per Unit Ref. No.)

^a PM, PM-10, PM 2.5, and VOC should also be split up by component and reported under the Proposed Permit Limits for Toxic Pollutants/HAPs.

^b PM-10 and PM 2.5 includes filterable and condensable.

PROPOSED PERMIT LIMITS FOR TOXIC POLLUTANTS/HAPS:

Company Name:	Date:	Registration Number:
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Unit Ref. No.	Proposed Permit Limits for Toxic/HAP Pollutants*															
	HAP Name:		HAP Name:		HAP Name:		HAP Name:		HAP Name:		HAP Name:		HAP Name:		HAP Name:	
	CAS #:		CAS #:		CAS #:		CAS #:		CAS #:		CAS #:		CAS #:		CAS #:	
	lbs/hr	tons/yr	lbs/hr	tons/yr	lbs/hr	tons/yr	lbs/hr	tons/yr	lbs/hr	tons/yr	lbs/hr	tons/yr	lbs/hr	tons/yr	lbs/hr	tons/yr
TOTAL:																

☐ Estimated Emission Calculations Attached (totals and per Unit Ref. No.)

* **Specify the name of the toxic pollutant/HAP for each Unit Ref. No. along with the respective CAS Number.** Toxic Pollutant means a pollutant on the designated list in the Form 7 Instructions document. Particulate matter and volatile organic compounds are not toxic pollutants as generic classes of substances, but individual substances within these classes may be toxic pollutants because their toxic properties or because a TLV (tm) has been established.

PROPOSED PERMIT LIMITS FOR OTHER REGULATED POLLUTANTS:

Company Name:	Date:	Registration Number:
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Unit Ref. No.	Proposed Permit Limits for Other Regulated Pollutants*															
	<u>Pollutant Name:</u>		<u>Pollutant Name:</u>		<u>Pollutant Name:</u>		<u>Pollutant Name:</u>		<u>Pollutant Name:</u>		<u>Pollutant Name:</u>		<u>Pollutant Name:</u>		<u>Pollutant Name:</u>	
	lbs/hr	tons/yr	lbs/hr	tons/yr	lbs/hr	tons/yr	lbs/hr	tons/yr	lbs/hr	tons/yr	lbs/hr	tons/yr	lbs/hr	tons/yr	lbs/hr	tons/yr
TOTAL:																

☐ Estimated Emission Calculations Attached (totals and per Unit Ref. No.)

* **Other Regulated Pollutant** include Fluorides, Sulfuric Acid Mist, Hydrogen Sulfide (H₂S), Total Reduced Sulfur (including H₂S), Reduced Sulfur Compounds (including H₂S), Municipal Waste Combustor Organics (measured as total tetra-through octa-chlorinated dibenzo-p-dioxins and dibenzofurans), Municipal Waste Combustor Metals (measured as particulate matter), Municipal Waste Combustor Acid Gases (measured as the sum of SO₂ and HCl), and Municipal Solid Waste Landfill Emissions (measured as nonmethane organic compounds).

PROPOSED PERMIT LIMITS FOR GREENHOUSE GASES (GHGs) ON MASS BASIS: FOR PSD MAJOR SOURCES ONLY

Company Name:	Date:	Registration Number:
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Unit Ref. No.	Proposed Permit Limits for GHG Pollutants on Mass Basis													
	CO ₂ (Carbon Dioxide)		N ₂ O (Nitrous Oxide)		CH ₄ (Methane)		HFCs (Hydrofluoro- carbons)		PFCs (Perfluoro- carbons)		SF ₆ (Sulfur Hexafluoride)		Total GHGs	
	lbs/hr	tons/yr	lbs/hr	tons/yr	lbs/hr	tons/yr	lbs/hr	tons/yr	lbs/hr	tons/yr	lbs/hr	tons/yr	lbs/hr	tons/yr
TOTAL:														

☐ Estimated Emission Calculations Attached (totals and per Unit Ref. No.)

PROPOSED PERMIT LIMITS FOR GREENHOUSE GASES (GHGs) ON CO₂ EQUIVALENT EMISSIONS (CO₂e) BASIS: FOR PSD MAJOR SOURCES ONLY

Company Name:	Date:	Registration Number:
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Unit Ref. No.	Proposed Permit Limits for GHG Pollutants on CO ₂ Equivalent Basis													
	CO ₂ (Carbon Dioxide)		N ₂ O (Nitrous Oxide)		CH ₄ (Methane)		HFCs (Hydrofluoro- carbons)		PFCs (Perfluoro- carbons)		SF ₆ (Sulfur Hexafluoride)		Total GHGs	
	lbs/hr	tons/yr	lbs/hr	tons/yr	lbs/hr	tons/yr	lbs/hr	tons/yr	lbs/hr	tons/yr	lbs/hr	tons/yr	lbs/hr	tons/yr
TOTAL:														

☐ Estimated Emission Calculations Attached (totals and per Unit Ref. No.)

BASELINE ACTUAL EMISSIONS (BAE) FOR CRITERIA POLLUTANTS: FOR PSD OR MAJOR NONATTAINMENT SOURCES ONLY

Company Name:	Date:	Registration Number:
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Unit Ref. No.	Average Actual Annual Emissions to the Atmosphere of Criteria Pollutants for the Period: _____, 20__ to _____, 20__							
	PM (Particulate Matter)	PM-10* (10 µM or smaller particulate matter)	PM 2.5* (2.5 µM or smaller particulate matter)	SO₂ (Sulfur Dioxide)	NO_x (Nitrogen Oxides)	CO (Carbon Monoxide)	VOC (Volatile Organic Compounds)	Pb (Lead)
	tons/yr	tons/yr	tons/yr	tons/yr	tons/yr	tons/yr	tons/yr	tons/yr
TOTAL:								

☐ Background Documentation Attached (totals and per Unit Ref. No.)

* PM-10 and PM 2.5 includes filterable and condensable.

BASELINE ACTUAL EMISSIONS (BAE) FOR GREENHOUSE GASES (GHGs) POLLUTANT EMISSIONS ON MASS BASIS: FOR PSD MAJOR SOURCES ONLY

Company Name:	Date:	Registration Number:
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Unit Ref. No.	Average Actual Annual Emissions to the Atmosphere of GHGs for the Period: _____, 20__ to _____, 20__					
	CO ₂ (Carbon Dioxide)	N ₂ O (Nitrous Oxide)	CH ₄ (Methane)	HFCs (Hydrofluorocarbons)	PFCs (Perfluorocarbons)	SF ₆ (Sulfur Hexafluoride)
	tons/yr	tons/yr	tons/yr	tons/yr	tons/yr	tons/yr
TOTAL:						

☐ Background Documentation Attached (totals and per Unit Ref. No.)

**BASELINE ACTUAL EMISSIONS (BAE) FOR GREENHOUSE GASES (GHGs) POLLUTANT EMISSIONS ON CO₂ EQUIVALENT EMISSIONS (CO₂e)
BASIS: FOR PSD MAJOR SOURCES ONLY**

Company Name:	Date:	Registration Number:
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Unit Ref. No.	Average Actual Annual Emissions to the Atmosphere of GHGs for the Period: _____, 20__ to _____, 20__					
	CO ₂ (Carbon Dioxide)	N ₂ O (Nitrous Oxide)	CH ₄ (Methane)	HFCs (Hydrofluorocarbons)	PFCs (Perfluorocarbons)	SF ₆ (Sulfur Hexafluoride)
	tons/yr	tons/yr	tons/yr	tons/yr	tons/yr	tons/yr
TOTAL:						

☐ Background Documentation Attached (totals and per Unit Ref. No.)

OPERATING PERIODS:

Company Name:	Date:	Registration Number:
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Unit Ref. No.	Percent Annual Use/Throughput by Season				Normal Process/Equipment Operating Schedule			Maximum Process/Equipment Operating Schedule		
	December February	March May	June August	September November	Hours per Day	Days per Week	Weeks per Year	Hours per Day	Days per Week	Weeks per Year

Maximum Facility Operating Schedule		
Hours per Day	Days per Week	Weeks per Year